

Title (en)  
Radar apparatus

Title (de)  
Radargerät

Title (fr)  
Appareil radar

Publication  
**EP 1275979 A2 20030115 (EN)**

Application  
**EP 02254851 A 20020710**

Priority  
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Abstract (en)  
A modulation signal generation circuit (29) performs frequency modulation of a VCO (24) with a triangular wave for operation as an FM-CW radar. A signal processing circuit (30) gives a modulation signal for detection generated from the modulation signal generation circuit (29) to the VCO (24). A high-frequency signal subjected to frequency modulation in the VCO (24) is transmitted as a radio wave from a transmission antenna and is reflected on a target and the reflected radio wave is received at a reception antenna. The reception signal and the high-frequency signal are mixed by a mixer (26) to provide a beat signal and frequency shift corresponding to a voltage V1 is detected from the frequency of the beat signal. If the voltage V1 of the modulation signal for detection is switched, the frequency shift corresponding to different voltage V1 can be provided and the frequency modulation characteristic can be detected. <IMAGE> <IMAGE> <IMAGE>

IPC 1-7  
**G01S 13/34**; **G01S 7/35**

IPC 8 full level  
**G01S 7/35** (2006.01); **G01S 7/40** (2006.01); **G01S 13/34** (2006.01); **G01S 13/931** (2020.01)

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**EP 1275979 A2 20030115**; **EP 1275979 A3 20030813**; **EP 1275979 B1 20061004**; CN 1252491 C 20060419; CN 1396464 A 20030212; DE 60215078 D1 20061116; DE 60215078 T2 20070503; JP 2003028951 A 20030129; KR 100487756 B1 20050506; KR 20030007099 A 20030123; US 2003016163 A1 20030123; US 2005007271 A1 20050113; US 6597308 B2 20030722

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